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Data Sheet

August 1, 2026

ANRITSU

Anritsu MT9085C – ACCESS Master High Performance Dynamic Range

Anritsu MT9085C ACCESS Master High Performance Dynamic Range The Anritsu MT9085C is the High Performance Dynamic Range model in the ACCESS Master MT9085 series of handheld OTDRs for fiber installation and maintenance. It provides the highest dynamic range in the MT9085 family – typically 46/46 dB at 1310/1550 nm (Option 053) and 46/46/44 dB at 1310/1550/1625 nm (Option 057). Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m). It sits above the MT9085A (Standard) and MT9085B (Enhanced) dynamic-range variants. The Anritsu MT9085C is the High Performance Dynamic Range model in the ACCESS Master MT9085 series of handheld OTDRs for fiber installation and maintenance. It provides the highest dynamic range in the MT9085 family – typically 46/46 dB at 1310/1550 nm (Option 053) and 46/46/44 dB at 1310/1550/1625 nm (Option 057). Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m). It sits above the MT9085A (Standard) and MT9085B (Enhanced) dynamic-range variants. Long-haul and ultra-long fiber I&M; high dynamic-range access/metro OTDR; 1625 nm maintenance-wavelength testing with Option 057; field OTDR with integrated light source, optical power meter, VFL, and VIP support.



MODEL

Anritsu MT9085C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MT9085C

LISTING

<https://aumictechlabs.com/products/mt9085c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MT9085C ACCESS Master is a compact handheld OTDR (Optical Time Domain Reflectometer) engineered for precise optical fiber characterization, event detection, and reflectometry across core, metro, mobile fronthaul, mobile backhaul, and access network installations. This single-unit platform integrates OTDR, optical loss/power measurement, and optional fiber end-face inspection capabilities to streamline field diagnostics and maintenance workflows. The MT9085C delivers a dynamic range up to 46 dB (Single Mode) with an event dead zone of ≤ 0.8 m, enabling detection and measurement of breaks, splices, connectors, and macrobend events across distances from 0.5 km to 300 km (Single Mode) and 0.5 km to 100 km (Multimode). Distance resolution ranges from 0.05 m to 60 m, with up to 150,001 sampling points per trace. The refractive index setting adjusts from 1.300000 to 1.700000 in 0.000001 steps for precise fiber characterization. The instrument supports multiple wavelengths including 1310 nm and 1550 nm for Single Mode Fiber, with optional configurations at 1625 nm (macrobend analysis) and 1490 nm (FTTx/PON applications). Reflectance accuracy is ± 2 dB (Single Mode) and ± 4 dB (Multimode). The device identifies branched fiber topologies up to 1×128 configurations. An 8-inch LCD touchscreen (800 $\times$ 480 resolution) with rotary knob and dedicated hard keys provides intuitive operation. The Fiber Visualizer function displays events as schematic icons with automatic Pass/Fail evaluation. Internal memory accommodates up to 50,000 traces (1 GB); external USB storage extends to 32 GB. Distance units display in km, m, kft, ft, or mi. The 12 V(dc) / 100–240 V(ac) power supply delivers up to 12 hours of battery operation.

Technical Specifications

Dynamic Range: Up to 46 dB (Single Mode) Event Dead Zone: ≤ 0.8 m Distance Range (Single Mode): 0.5 km to 300 km Distance Range (Multimode): 0.5 km to 100 km Wavelengths: 1310 nm, 1550 nm (SMF); 1625 nm, 1490 nm (optional configurations) Sampling Points: Up to 150,001 Sampling Resolution: 0.05 m to 60 m IOR Adjustment: 1.300000–1.700000 (0.000001 step resolution) Reflectance Accuracy: ± 2 dB (Single Mode), ± 4 dB (Multimode) Splitter Event Identification: Up to 1×128 branches Display: 8-inch LCD touchscreen, 800 $\times$ 480 resolution Data Storage: 1 GB internal ($\leq 50,000$ traces), up to 32 GB external USB Power Supply: 12 V(dc), 100–240 V(ac) Battery Life: Up to 12 hours

Key Features

Built-in light source and optical power meter for integrated loss measurement Fiber Visualizer with schematic event icons and automatic Pass/Fail evaluation Optional external fiberscope for optical fiber end-face inspection Distance unit selection: km, m, kft, ft, mi Dual control interface: touchscreen, rotary knob, and dedicated hard keys

Typical Applications

Core, metro, and long-haul fiber network commissioning and maintenance Mobile fronthaul and backhaul deployment verification FTTx and PON access network diagnostics Event identification and characterization in branched fiber architectures

Compatibility & Integration

Single Mode and Multimode fiber support USB external storage for trace data transfer and archival Optional fiberscope integration for end-face condition assessment

Features & description

From manufacturer datasheet

Features

- ACCESS Master handheld OTDR – High Performance Dynamic Range class
- Up to about 46 dB dynamic range at 1310/1550 nm
- HR (high resolution) and ER (enhanced range / PON) modes
- Large touchscreen GUI for field I&M
- Optional built-in light source, optical power meter, VFL, and VIP
- Lithium-ion battery operation with AC adapter
- Softkey automation for fault location and event tables

MT9085C Characteristics / Specifications

PARAMETER	VALUE
Model	MT9085C
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – High Performance Dynamic Range
Series	MT9085 ACCESS Master (A/B/C) Wavelength Options (examples)
Fresnel Dead Zone	less than or equal to 1 m; 0.8 m typical
Fiber	SMF ITU-T G.652
Pulse Widths	3 ns to 20000 ns class (option dependent)
Dynamic Range Conditions	typically 20 us pulse, 100 km range, 180 s average, SNR=1, 25 C
Laser Safety	IEC 60825-1 Class 1 Standard Accessories (series) Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide Family Context
MT9085A	Standard Dynamic Range (about 39 dB class)
MT9085B	Enhanced Dynamic Range (about 42 dB class)
MT9085C	High Performance Dynamic Range (about 46 dB class)
Predecessor class	MT9083C ACCESS Master (about 45 dB mini-OTDR class) Standard Operating Conditions Clean connectors before testing. Select correct fiber type and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.
Fiber type	and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.

MT9085C Specifications

PARAMETER	VALUE
Technical Specifications	Model: MT9085C
Wavelength Options (examples)	MT9085C-053: 1310/1550 nm SM; dynamic range 46/46 dB
Standard Accessories (series)	Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide
Family Context	MT9085A: Standard Dynamic Range (about 39 dB class)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Performance Dynamic Range

Overview

The Anritsu MT9085C is the High Performance Dynamic Range model in the ACCESS Master MT9085 series of handheld OTDRs for fiber installation and maintenance. It provides the highest dynamic range in the MT9085 family – typically 46/46 dB at 1310/1550 nm (Option 053) and 46/46/44 dB at 1310/1550/1625 nm (Option 057). Event (Fresnel) dead zone is typically 0.8 m (less than or equal to 1 m). It sits above the MT9085A (Standard) and MT9085B (Enhanced) dynamic-range variants.

Applications

Long-haul and ultra-long fiber I&M; high dynamic-range access/metro OTDR; 1625 nm maintenance-wavelength testing with Option 057; field OTDR with integrated light source, optical power meter, VFL, and VIP support.

Key Features

- ACCESS Master handheld OTDR – High Performance Dynamic Range class
- Up to about 46 dB dynamic range at 1310/1550 nm
- HR (high resolution) and ER (enhanced range / PON) modes
- Large touchscreen GUI for field I&M
- Optional built-in light source, optical power meter, VFL, and VIP
- Lithium-ion battery operation with AC adapter
- Softkey automation for fault location and event tables

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MT9085C
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – High Performance Dynamic Range
Series	MT9085 ACCESS Master (A/B/C)

Wavelength Options (examples)

MT9085C-053: 1310/1550 nm SM; dynamic range 46/46 dB

MT9085C-057: 1310/1550/1625 nm SM; dynamic range 46/46/44 dB

Common Optical Specs (brochure / product-introduction class)

Specifications

PARAMETER	VALUE
Fresnel Dead Zone	less than or equal to 1 m; 0.8 m typical
Fiber	SMF ITU-T G.652
Pulse Widths	3 ns to 20000 ns class (option dependent)
Dynamic Range Conditions	typically 20 us pulse, 100 km range, 180 s average, SNR=1, 25 C
Laser Safety	IEC 60825-1 Class 1

Standard Accessories (series)

Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide

Specifications

PARAMETER	VALUE
MT9085A	Standard Dynamic Range (about 39 dB class)
MT9085B	Enhanced Dynamic Range (about 42 dB class)
MT9085C	High Performance Dynamic Range (about 46 dB class)
Predecessor class	MT9083C ACCESS Master (about 45 dB mini-OTDR class)

Standard Operating Conditions
Clean connectors before testing. Select correct fiber type and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.

Operational Notes
MT9085C is the mainframe dynamic-range class; at least one wavelength option (053 or 057) must be installed. Do not confuse with MT9085A/B lower DR classes or the older MT9083C series.

Laser Safety

Laser Safety: IEC 60825-1 Class 1 Standard Accessories (series) Z0921A battery pack; Z1625A AC adapter; power cord; operation manual / quick guide Family Context MT9085A: Standard Dynamic Range (about 39 dB class) MT9085B: Enhanced Dynamic Range (about 42 dB class) MT9085C: High Performance Dynamic Range (about 46 dB class) Predecessor class: MT9083C ACCESS Master (about 45 dB mini-OTDR class) Standard Ope

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.